

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Kie Y. Ahn et al.

Title: EVAPORATED LaAlO₃ FILMS FOR GATE DIELECTRICS

Docket No.: 1303.046US1/

Filed: February 20, 2002

Examiner: Unknown



Serial No.: 10/081439

Due Date: N/A

Group Art Unit: 2818

2818
Image

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

We are transmitting herewith the following attached items (as indicated with an "X"):

☒ A return postcard.

☒ A Supplemental Information Disclosure Statement (2 pgs.), Form 1449 (2 pgs.), and copies of 30 cited documents.

If not provided for in a separate paper filed herewith, Please consider this a PETITION FOR EXTENSION OF TIME for sufficient number of months to enter these papers and please charge any additional fees or credit overpayment to Deposit Account No. 19-0743.

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.
Customer Number 21186

By: David R. Cochran
Atty: David R. Cochran
Reg. No. 46,632

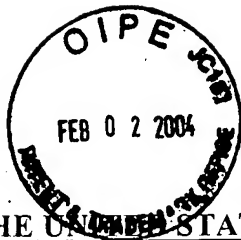
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Name Judy Mosher

Signature Judy Mosher

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.
(GENERAL)

S/N 10/081439



PATENT

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Applicant:	Kie Y. Ahn et al.	Examiner:	Unknown
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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicants respectfully request that this Supplemental Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicants request that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicants with the next official communication.

Pursuant to 37 C.F.R. §1.97(b), it is believed that no fee or statement is required with the Supplemental Information Disclosure Statement. However, if an Office Action on the merits has been mailed, the Commissioner is hereby authorized to charge the required fees to Deposit Account No. 19-0743 in order to have this Supplemental Information Disclosure Statement considered.

The Examiner is invited to contact the Applicants' Representative at the below-listed telephone number if there are any questions regarding this communication.

Respectfully submitted,

KIE Y. AHN ET AL.

By their Representatives,

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Date 30 January 2004 By David R Cochran
David R. Cochran
Reg. No. 46,632

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Judy Mosher
Name

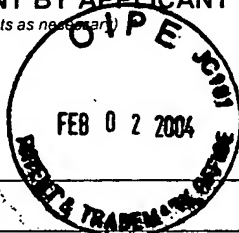
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)



Complete if Known

Application Number 10/081439

Filing Date February 20, 2002

First Named Inventor Ahn, Kie

Group Art Unit 2818

Examiner Name Unknown

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Attorney Docket No: 1303.046US1

US PATENT DOCUMENTS

Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	Filing Date If Appropriate
	US-02/0089023	07/11/2002	Yu, Zhiyi , et al.	257	411	01/05/2001
	US-2002/0155688	10/24/2002	Ahn, Kie Y., et al.	438	592	04/20/2001
	US-2002/0155689	10/24/2002	Ahn, Kie Y., et al.	29	76	02/11/2002
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EXAMINER**DATE CONSIDERED**

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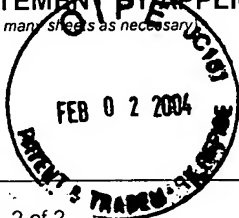
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Sheet 2 of 2

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Application Number 10/081439

Filing Date February 20, 2002

First Named Inventor Ahn, Kie

Group Art Unit 2818

Examiner Name Unknown

Attorney Docket No: 1303.046US1

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	T ²
	EP-1096042	05/02/2001	Ramdani, J. , et al.	C30B	25/02	
	WO-02/31875	04/18/2002	Haukka, S. , et al.	H01L	21/316	

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		BUNSHAH, ROINTAN F., et al., "Deposition Technologies for Films and Coatings: Developments and Applications", <u>Park Ridge, N.J., U.S.A. : Noyes Publications, (1982), 102-103</u>	
		KIM, D. , et al., "Atomic Control of Substrate Termination and Heteroepitaxial Growth of SrTiO ₃ /LaAlO ₃ Films", <u>Journal of the Korean Physical Society, 36(6), (June 2000), 444-448</u>	
		WOLF, S. , et al., <u>In: Silicon Processing of the VLSI Era, Vol. 1, Lattice Press, 374-380</u>	

EXAMINER**DATE CONSIDERED**

Substitute Disclosure Statement Form (PTO-1449)

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional) ² Applicant is to place a check mark here if English language Translation is attached